

MACHINE VISION CAMERA

CamPerform

CP70-1-M/C-1000



- METROLOGY
- 2D/3D AOI
- INLINE INSPECTION

- 1000 fps with 1280x1024 pixels with 12 bit A/D conversion
- New DIN 1.0/2.3 connectors with thread lock
- CoaXPress interface with 25 Gbit/s
- Power and trigger via CoaXPress
- Binning mode for faster readout and better sensitivity
- EMVA1288 standard

CamPerform CP70-1-M/C-1000

Optronis

Make time visible

MODEL OPTIONS

Article number	Description
CP70-1-M-1000	monochrome Camera
CP70-1-C-1000	color Camera
CP70-CM	C-Mount lens adapter
CP70-FM	F-Mount lens adapter
CP70-PTC	Pig tail cable for sync

PERFORMANCE (EXAMPLES)

Resolution (HxV)	Frames/second	Resolution Binned (HxV)	Frames/second
1280 x 1024	1051 fps	640 x 512	4064 fps
1280 x 720	1491 fps	640 x 360	5711 fps
640 x 480	4087 fps	320 x 240	8396 fps
256 x 256	7540 fps	128 x 128	15394 fps
448 x 4	151057 fps	224 x 4	140977 fps

STANDARDS

Conformity (documents available on request)

EMVA1288	Version 3.0
CoaXPress	Version 1.1
GenlCam	Fully supported
Shock & Vibration	DIN EN 60721-3-2
ISO	9001:2015
Conformity	CE, RoHS



SPECIFICATIONS

Sensor resolution	1280 x 1024 Faster frame rates with smaller X,Y window size; Binning mode 2x2 for monochrome sensor only
Frame rate @ max. sensor res.	1051 fps
Image sensor	LUX1310 Global Shutter CMOS
Exposure time	2 µs - 1/Frame rate
Active area	8.448 mm x 6.758 mm
Sensor diagonal dimension	10.818 mm
Pixel size	6.6 µm
A/D conversion	12 Bit, 8 Bit (LUT optional)
Dynamic	53.7 dB
Sensitivity	9,6 V/lux*s @525 nm
Gain	analog 1x, 2x, 4x
Saturation capacity (FWC)	17000 e-
SNR	45 dB
DSNU1288	57.5 e-
PRNU1288	1.27 %
Non-linearity error	<0.5 % (calibrated <0.2 %)
Shutter efficiency	global electronic shutter
Trigger signal	TTL, 3.3 - 5 V, 10 mA, optically isolated
Trigger modes	internal free-run, external, CXP
Interface	CoaXPress (4/2 Channel, CXP-6) DIN 1.0/2.3 connectors
Power	PoCXP (8.5 Watt)
Lens mount	F-Mount, C-Mount, M42 and custom
Weight	400 g without mount
Dimensions	85 mm x 85 mm x 49.0 mm (3D-Step file on request)
Housing	lightweight anodised aluminium
Scope of delivery	camera and manual

TECHNICAL DRAWING

